

ABSTRACT

The present disclosure is directed to electrical cable connector assemblies that have a woven connector element and a cable subassembly. The woven connector element utilizes loading fibers and conductors. Each conductor has at least one contact point. The conductors are woven with the loading fibers so that when the loading fibers are placed in tension, a normal contact force is exerted at each of the contact points of the conductors. The conductors of the woven connector element extend into the cable subassembly. Thus, the conductors of the cable connector assembly are integral to both the woven connector element and the cable subassembly. In certain exemplary embodiments, a cable connector assembly further includes a mating conductor that has a contact mating surface, where electrical connections can be established between the contact points of the conductors and the contact mating surface of the mating conductor. In certain embodiments, the cable connector assemblies of the present disclosure can be utilized as cable-to-cable connector assemblies or cable-to-board connector assemblies. Moreover, in certain embodiments, the cable connector assemblies of the present disclosure can be utilized as data cable connector assemblies or power cable connector assemblies.